

Table E-14: Emission Factors for CH₄ and N₂O for Alternative Fuel/Vehicle Technology Highway Vehicles

Vehicle Technology	Type/Control	N ₂ O (g/mi)	CH ₄ (g/mi)	N ₂ O (g/km)	CH ₄ (g/km)
Light-duty Vehicles					
Methanol		0.063	0.014	0.039	0.009
CNG		0.113	0.914	0.070	0.568
LPG		0.152	0.609	0.094	0.378
Ethanol		0.076	0.043	0.047	0.027
Heavy-duty Vehicles					
Methanol		0.217	0.646	0.135	0.401
CNG		0.297	9.629	0.185	5.983
LNG		0.440	6.857	0.274	4.261
LPG		0.150	0.108	0.093	0.067
Ethanol		0.307	1.975	0.191	1.227
Buses					
Methanol		0.217	0.646	0.135	0.401
CNG		0.162	12.416	0.101	7.715
Ethanol		0.364	2.079	0.226	1.292

Source: Developed from Wang (1999), Lipman and Delucchi (2002), CRC (1997), Brasil and McMahon (1999), Norbeck, et al (1998), and DOE (2002a).